



Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

Prepared for: DCOR, LLC
290 Maple Court Suite #290
Ventura, CA 93003
Attn: Jay Rao

Report Date: September 19, 2017
Laboratory Number: 171723
Project Name: PF Edith Produced Water: RP
Sampled by: Jose A.

Enclosed are the analysis results for samples received September 7, 2017 with the Chain of Custody document. The sample was received in good condition, at 11.3°C, and it was identified and assigned the laboratory ID number listed below:

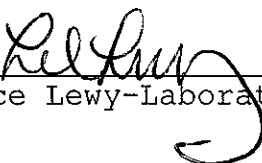
SAMPLE DESCRIPTION

CAS LAB NUMBER ID

Produced Water

171723-01

By my signature below, I certify that the results contained in this laboratory report comply with applicable standards for certification by the California Department of Public Health's Environmental Laboratories Accreditation Program (ELAP), both technically and for completeness, and that, based on my inquiry of the person or persons directly responsible for performing the analyses, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.


Lance Lewy-Laboratory Director

If you have any further questions or concerns, please contact me at your convenience. This report consists of 15 pages excluding the cover letter and the Chain of Custody.

This report shall not be reproduced except in full without the written approval of CAS. The test results reported represent only the item being tested and may not represent the entire material from which the sample was taken.



Analytical Services, Inc.

Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

CERTIFICATE OF ANALYSIS

Client: DCOR, LLC (PF Edith)
CAS LAB NO: 171723
Analyst: MGR

Date Sampled: 09/07/17
Date Received: 09/07/17
Sample Matrix: Water

TOTAL METALS SUMMARY

COMPOUND	RESULTS	UNITS	DF	PQL	METHOD	ANALYZED
=====						
CAS Lab#: 171723-01						
Sample ID: Produced Water						
Cadmium	BQL	mg/L	1	0.01	200.7	09/14/17
Chromium	BQL	mg/L	1	0.005	200.7	09/14/17
Copper	BQL	mg/L	1	0.03	200.7	09/14/17
Lead	BQL	mg/L	1	0.005	200.7	09/14/17
Nickel	BQL	mg/L	1	0.02	200.7	09/14/17
Silver	BQL	mg/L	1	0.002	200.7	09/14/17
Zinc	BQL	mg/L	1	0.05	200.7	09/14/17
Manganese	0.08	mg/L	1	0.005	200.7	09/14/17
Mercury	BQL	µg/L	1	0.5	200.8	09/14/17
Selenium	BQL	mg/L	1	0.01	200.7	09/14/17
Arsenic	BQL	mg/L	1	0.01	200.7	09/14/17

mg/L: Milligrams/Liter (ppm)
ug/L: Micrograms/Liter (ppb)
PQL: Practical Quantitation Limit
BQL: Below Quantitation Limit
DF: Dilution Factor

CERTIFICATE OF ANALYSISClient: DCOR, LLC (Edith)
CAS LAB NO: 171723
Analyst: ANDate Sampled: 09/11/17
Date Received: 09/11/17
Sample Matrix: Water**WET CHEMISTRY SUMMARY**

COMPOUND	RESULTS	UNITS	DF	PQL	MDL	EPA METHOD	DATE ANALYZED
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CAS Lab#: 171723-01**Sample ID: Produced Water**

Ammonia (as N)	100	mg/L	1	0.1	0.02	4500NH3D	09/11/17
Total Cyanide	ND	mg/L	1	0.02	0.004	4500CN-E	09/09/17
Total Phenol	0.17	mg/L	1	0.1	0.02	420.1	09/09/17
Total Sulfide*	0.052J	mg/L	5	0.1	0.02	4500S-2D	09/11/17

*Due to color interferences, lower dilution is not possible

PQL: Practical Quantitation Limit
MDL: Method Detection Limit
mg/L: Milligrams/Liter (ppm)
ND: Not Detected



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Environmental Testing Laboratory Since 1949



Date of Report: 09/15/2017

Rosa Hernandez

Capco Analytical Services, Inc.

2978 Seaborg Avenue, Suite 4

Ventura, CA 93003

Client Project: 171723 (Edith - Annual)

BCL Project: Water Samples

BCL Work Order: 1725222

Invoice ID: B279292

Enclosed are the results of analyses for samples received by the laboratory on 9/7/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Chain of Custody and Cooler Receipt Form for 1725222 Page 1 of 2

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields

Client/Company Name *		Report Attention *		Phone * 805 644-1095		FAX * 805 644 4497		E-mail: rhernandez@capcoenv.com		ANALYSIS REQUESTED	
Address *		City *		State *		Zip *		Carbon Copies:			
2978 Seaborg Ave., Unit 4		Ventura		CA		93003		CDHS <input type="checkbox"/> Fresno Co <input type="checkbox"/> EPA <input type="checkbox"/>			
Project Information		PO #		BCL Quote #				Merced Co <input type="checkbox"/> Tulare Co <input type="checkbox"/>			
171723 (Edith - Annual)		871543						Other:			
How would you like your completed results sent?		<input checked="" type="checkbox"/> E-Mail		<input type="checkbox"/> Fax		<input type="checkbox"/> EDD		Regulatory Compliance			
Sample Name: Printed - Signature		QC Request		Recall Request **		Surcharge		Electronic Data Transfer:			
Client		<input checked="" type="checkbox"/> STD <input type="checkbox"/> Level II		<input checked="" type="checkbox"/> Day **		<input type="checkbox"/> Day **		System No. *			
Matrix Types:		RSP - Raw Surface Water		CW - Chlorinated Finished Water		BW - Boiled Water		Hexavalent Chromium			
RGR - Raw Ground Water		FW - Finished Water		NW - Waste Water		SW - Storm Water		DW - Drinking Water			
SD - Solid											
Sample #		Sample Description / Location *		Matrix *		Comments / Station Code					
1		171723-04 (Produced Water)		water		preserved on 9/07/17 pH 9.06 GP					
Date		Time		Date		Time					
9/07/17		05:10									
Signature		Signature		Signature		Signature					
Daniel Megalla		Daniel Megalla		Daniel Megalla		Daniel Megalla					
Company		Company		Company		Company					
B.C. Labs		B.C. Labs		B.C. Labs		B.C. Labs					
Received by Lab by: (Signature and Printed Name)		Date		Time		Time					
Juan V. Hernandez		9/7/17		16:45		16:45					
Received by (Signature and Printed Name)		Date		Time		Time					
Juan V. Hernandez		9/7/17		16:45		16:45					
Received by (Signature and Printed Name)		Date		Time		Time					
Juan V. Hernandez		9/7/17		16:45		16:45					
Shipping Method:		Cooling Method:		Amount:		Check/Cash/Trade		Packing Material:			
CAO UPS GSO WALK-IN SVC FRI EX OTHER		WET BLUE NONE									



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Chain of Custody and Cooler Receipt Form for 1725222 Page 2 of 2

LABORATORIES INC.		COOLER RECEIPT FORM		Page 1 Of 1							
Submission #: 1725222											
SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID							
Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		YES <input type="checkbox"/> NO <input type="checkbox"/>							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____				W / S							
Custody Seals: Ice Chest <input type="checkbox"/> Containers: <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.95 Container: PE Thermometer ID: 206		Date/Time 9/17/2015							
		Temperature: (A) 1.5 °C / (C) 1.7 °C		Analyst Init. RAL							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1 2 3 4 5 6 7 8 9 10									
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴ 202		A									
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
1oz. NITRATE/NITRITE											
T TOTAL ORGANIC CARBON											
T CHEMICAL OXYGEN DEMAND											
1A PHENOLICS											
0ml VOA VIAL TRAVEL BLANK											
0ml VOA VIAL											
T EPA 1664											
T ODOR											
ADIOLOGICAL											
ACTERIOLOGICAL											
1ml VOA VIAL- 504											
EPA 508/608/8080											
EPA 515.1/8150											
EPA 525											
EPA 525 TRAVEL BLANK											
ml EPA 547											
ml EPA 531.1											
EPA 548											
EPA 549											
EPA 8015M											
EPA 8270											
/16oz/32oz AMBER											
/16oz/32oz JAR											
L SLEEVE											
VIAL											
STIC BAG											
LAR BAG											
ROUS IRON											
ORE											
RT KIT											
MA CANISTER											
Comments:											
Date Numbering Completed By: M		Date/Time: 9/8 8:30									

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BC Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Capco Analytical Services, Inc.
2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1725222-01	COC Number:	---	Receive Date:	09/07/2017 20:15
	Project Number:	---	Sampling Date:	09/07/2017 05:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	171723-04 (Produced Water)	Lab Matrix:	Water
	Sampled By:	Client	Sample Type:	Water

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Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

BCL Sample ID:	1725222-01	Client Sample Name:	171723-04 (Produced Water), 9/7/2017 5:10:00AM, Client
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	0.031	EPA-218.6	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-218.6	09/08/17	09/08/17 16:45	EMW	IC-4	1	B[10671

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Capco Analytical Services, Inc.
2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[0671						
Hexavalent Chromium	B[0671-BLK1	ND	ug/L	0.20	0.031	

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2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

Quality Control Report - Laboratory Control Sample

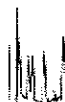
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[10671										
Hexavalent Chromium	B[10671-BS1	LCS	19.768	20.000	ug/L	98.8		90 - 110		

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Ventura, CA 93003

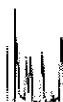
Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals
QC Batch ID: B[10671		Used client sample: N									
Hexavalent Chromium	DUP	1725279-01	0.15500	0.15800		ug/L	1.9		10		J
	MS	1725279-01	0.15500	19.714	20.202	ug/L		96.8		90 - 110	
	MSD	1725279-01	0.15500	19.725	20.202	ug/L	0.1	96.9	10	90 - 110	

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Capco Analytical Services, Inc.
2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit

Quality Control Section



Analytical Services, Inc.

Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

QUALITY CONTROL SECTION

Sample ID: Method Blank
CAS LAB NO: 171723-MB

Analyst: AN/AV

WET CHEMISTRY SUMMARY

COMPOUND	RESULTS	UNITS	DF	PQL	MDL	METHOD	ANALYZED
Ammonia (as N)	ND	mg/L	1	0.1	0.02	4500NH3D	09/11/17
Total Cyanide	ND	mg/L	1	0.02	0.004	4500CN-E	09/09/17
Total Phenol	ND	mg/L	1	0.1	0.02	420.1	09/09/17
Total Sulfide	ND	mg/L	1	0.02	0.004	4500S-2D	09/11/17

PQL: Practical Quantitation Limit
MDL: Method Detection Limit
mg/L: Milligrams/Liter (ppm)
ND: Not Detected

QUALITY CONTROL SECTIONSample ID: Method Blank
CAS LAB NO: 171723-MB

Analyst: MGR

TOTAL METALS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	METHOD	ANALYZED
Cadmium	BQL	mg/L	1	0.01	200.7	09/14/17
Chromium	BQL	mg/L	1	0.005	200.7	09/14/17
Copper	BQL	mg/L	1	0.03	200.7	09/14/17
Lead	BQL	mg/L	1	0.005	200.7	09/14/17
Nickel	BQL	mg/L	1	0.02	200.7	09/14/17
Silver	BQL	mg/L	1	0.002	200.7	09/14/17
Zinc	BQL	mg/L	1	0.05	200.7	09/14/17
Manganese	BQL	mg/L	1	0.005	200.7	09/14/17
Mercury	BQL	µg/L	1	0.5	200.8	09/14/17
Selenium	BQL	mg/L	1	0.01	200.7	09/14/17
Arsenic	BQL	mg/L	1	0.01	200.7	09/14/17

mg/L: Milligrams/Liter (ppm)
ug/L: Micrograms/Liter (ppb)
PQL: Practical Quantitation Limit
BQL: Below Quantitation Limit
DF: Dilution Factor

SERVICES

CHAIN OF CUSTODY RECORD
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

REPORT.

Fax
Company
Address

(805) 535-2075

DCOR.LLC.

290 Maple Court. Suite 290

Ventura CA. 93003

Phone: 805 535-2078

Contact: Jay Rao

Bill To:

Bill
PO #

Company:

Address

DCOR 11C

[illegible]